



BIOLOGY

BOOKS - SUNSTAR BIOLOGY

(KANNADA ENGLISH)

II PUC BIOLOGY ANNUAL EXAM

QUESTION PAPER JULY - 2015

Part A

1. Define embryogenesis.



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2. Mention the asexual reproductive structures of Penicillium.



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3. Name the fungus that produces cyclosporin
A.



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4. Lactose is termed as inducer in lac operon.

Give reason.



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5. What are eurythermal organisms?



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6. Define transcription.



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7. Retroviruses are disarmed before using to deliver desirable genes into animal cells. Why?



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8. What is saltation?



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9. Disposal of sewage into water without proper treatment may cause out break of serious discases. Given reason.



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10. How does fragmentation of large habitats due to human activities lead to population decline?



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1. Mention any two natural methods of birth control.



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2. Mention the possible genotypes of A and B blood group individuals.



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3. Write two examples for loss of biodiversity due to alien species invasions.



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4. Placenta is the structural and functional unit between foetus and maternal body. Substantiate the statement.



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5. What is gene therapy? Name the disorder to which clinical gene therapy was given first.



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6. The shape of RBCs of sickle cell anaemia patients change to elongated sickle like structure. Give reason.



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7. Classify restriction enzymes. Mention the function of each.



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8. Name the pioneer species in primary succession on rocks and primary succession in water



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1. What is heterothallic condition?

Differentiate between staminate and pistillate flowers.



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2. What are cleistogamous flowers? Write their significance.



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3. How do the following assisted reproductive technologies assist the couples to have children?

a) In Vitro Fertilization

b) Zygote intra Fallopian Transfer

c) Gamete intra fallopian Transfer



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4. Name the six stages of human evolution in correct sequence.



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5. What is contact inhibition? Mention the types of tumors.



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6. Draw a labelled diagram of plasmid PBR 322.



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7. In which ways genetically modified plants are useful?



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8. Single cell proteins can be used as an alternate source of proteins for human nutrition. Illustrate with two examples.



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9. How can tissue culture be applied to recover healthy plants from virus-infected plants?



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Part D

1. Write the events of development of female gametophyte in correct order.



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2. What is incomplete dominance? Explain inheritance of flower colour in snapdragon.



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3. Write a diagrammatic representation of life cycle of HIV.



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4. Describe the parts of a biogas plant with a labelled diagram.



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5. Describe the Frederick Griffith's experiment to show transformation in bacteria.



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6. Define the following terms:

i) Commensalism

ii) Brood parasitism

iii) Mutualism.



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7. Mention four basic processes that fluctuate the density of a population in a given habitat.



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8. Draw a neat labelled diagram of human male reproductive system.



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9. Describe the process of translation of mRNA.



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10. Explain the important steps involved in the process of decomposition.



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11. (a) Explain the types of outbreeding processes employed to improve desirable qualities of animals.



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12. Write any two processes dealt with to increase the yield and quality of milk in dairy farm management.



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13. What is Eutrophication? Discuss the phenomenon of accelerated eutrophication.



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